

Abstract of the Disclosure

The present invention provides a method, communication  
5 system, and Internet Call Waiting/Holding (ICW/H) server for  
providing internet call waiting service without dropping the  
connection between a computer and an Internet Service Provider  
(ISP). A computer, via a modem or the like, initiates an  
internet call waiting connection between the computer and the  
10 ISP via a switch. The ISP assigns a dynamic Internet Protocol  
(IP) address to the computer for the internet call waiting  
connection. The computer sends the directory number and the  
dynamic IP address of the computer to an Internet Call  
Waiting/Holding (ICW/H) server, which stores them. The ICW/H  
15 server sends a message to the switch indicating that the call  
waiting service is active. The switch, upon receiving an  
incoming call request intended for the computer while the  
internet call waiting connection is active, routes the  
incoming call request to the ICW/H server. The ICW/H server  
20 alerts the computer of the incoming call request without  
dropping the internet call waiting connection.